6.5 Budgeting





Goals for the Day



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Definitions



Definitions



- A **budget** is a financial plan for your income over a defined period of time.
 - Planning ahead to be ready for the unexpected, rather than being reactive to what happens in the now.
- Net Income (take home pay) is equal to total, or gross, income minus taxes.
 - Net Income = Gross Income − Taxes
- Disposable income is the money left over after taxes and expenses.
 - Disposable income = Net income − Expenses

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Steps to Creating a Budget





- Big picture, we need to know the following to create a budget:
 - What is your monthly net income (after tax income)? What are your necessary expenses? How much disposable income is left?
- Steps to create a budget:
 - 1. Calculate monthly income
 - 2. Calculate monthly expenses
 - 3. Subtract expenses from income
 - 4. Allocate any remaining funds or make adjustments





Step 1 - Calculate monthly income

- Example: Hannah makes \$45,000 per year and expects to pay approximately 20% for all taxes.
 - How much of her income can Hannah expect to pay in taxes? $Taxes = Salary \times Tax \ rate = 45,000 \times \frac{20}{100} = 9000
 - b) What is Hannah's net income?

$$Net\ Income = Salary - Taxes = 45,000 - 9,000 = $36,000$$

C) What is Hannah's monthly take-home pay?

Monthly Take Home Pay =
$$\frac{Net income}{12} = \frac{36,000}{12} = $3,000$$







<u>Step 2 – Calculate monthly expenses</u>

- Example: Using the information provided in the given table, determine how much monthly income would be necessary to budget for
- a) loan fees over the 9-month academic year.

$$\frac{Loan fees}{9} = \frac{172}{9} = $19.11$$

all the expenses of over the 9-month academic year.

$$\frac{\sum (all\ expenses)}{9} = \frac{19,157 + 10,235 + \dots + 172}{9} = \frac{34,786}{9} = \$3,865.11$$

Estimated Cost of Local College Next Academic Year	
Budget Category	On-Campus Student
University Fees	\$19,157
Room & Board	\$10,235
Books & Supplies	\$1806
Transportation	\$730
Personal	\$1623
Health Insurance	\$1063
Loan Fees	\$172





<u>Step 3 – Subtract expenses from income income</u>

- Example: Monica has a yearly salary of \$28,700. Her employer withholds \$3052 in state and federal taxes and \$2180 in FICA taxes throughout the year. She has the following monthly costs: transportation is \$220, cell phone bill is \$50, student loans require \$180 in repayment, and rent is \$350. She is using the average monthly costs for each of the following in order to gain an idea of other monthly expenses: utilities are \$260, internet is \$105, health insurance is \$299, and groceries are \$210.
 - a) What is Monica's monthly net pay amount?

Monthly

Net Income = Salary - Taxes =
$$28,700 - (3,052 + 2,180) = $23,468 \Rightarrow = \frac{23,468}{12} = $1,955.67$$

How much money is left each month for discretionary spending after all necessities are accounted for?

Disposable income = Monthly Take Home Pay - Expenses =
$$1,955.67 - (220 + 50 + \cdots + 210)$$
 = \$281.67





<u>Step 4 – Allocate remaining funds or make adjustments</u>

Example: Determine the approximate monthly cost of spending \$16.64 on takeout at least 3 times a week. (Assume four weeks in a month.)

Monthly $cost = Expense \times \# times \times \# weeks = 16.64 \times 3 \times 4 = \198.68



Budgeting Rule



- Ultimately, a sound budget will cover all of your needs, some of your wants, and put you on a path of saving for emergencies and the future.
- One such general recommendation is the 50/30/20 budgeting rule is to allow:
 - 50% of your net income for necessities,
 - no more than 30% for wants
 - and at least 20% for savings and paying down debt.

Examples



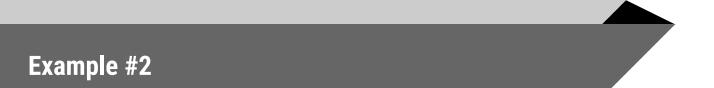
Example #1

The Lees have a combined net income of \$7026 a month. Find the amount they should allot for each category if they aim to follow the 50/30/20 rule for their budget. Round your answers to the nearest cent, if necessary.

Necessities: \$3,513

Wants: \$2,107.80

Savings: \$1,405.20





Dwayne is self-employed. Based on last year, his projected state and federal taxes for this year will be approximately \$10,200. Determine how much Dwayne should put aside...

- a) each month in order to have enough to pay his estimated quarterly taxes?
- b) each <u>quarter</u> in order to have enough to pay his estimated quarterly taxes?

Monthly = \$850 Quarterly = \$2,550